PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORI	TY		WS!					
To:			PCT PTON					
	•		ITTEN OPINION OF THE ONAL SEARCHING AUTHORITY					
			(PCT Rule 43bis.1)					
·		Date of mailing (day/month/year)	See form PCT/ISA/210					
Applicant's or agent's file reference P10-1602		FOR FURTHER ACTION See paragraph 2 below						
International application No. PCT/EP2005/001338	International filing date (a. 10.02.2005	day/month/year)	Priority date (day/month/year) 11.02.2004					
International Patent Classification (IPC) or both C08L21/00, C08K5/00	national classification and	d IPC	•					
Applicant SOCIETE DE TECHNOLOGI	E MICHELIN		· .					
1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion								
Name and mailing address of the ISA/EP		Authorized officer						
Facsimile No.		Telephone No.						

Facsimile No.

International application No.
PCT/EP2005/001338

Box	No. I Basis of this opinion
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language
	, which is the language of a translation furnished for the purposes of international search (under
	Rule 12.3 and 23.1(b)).
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
	a. type of material
	a sequence listing
	table(s) related to the sequence listing
	b. format of material
	in written format
	in computer readable form
	c. time of filing/furnishing
	contained in the international application as filed.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additional comments:
7.	Additional confinences.
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Box No. V			Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
1.	Statement									
	Novelty (N)		Claims 1-53	YES						
			Claims	NO NO						
	Invent	ive step (IS)) Claims 1-53	YES						
		<u> </u>	Claims	NO NO						
	Indust	rial applicat	hility (TA) 1 _ 5 2							
	Industrial applicability (IA)		Claims 1-53	YES						
	-		Ciatris							
2.	Citations	and explana	ations:							
	1.	Refer	rence is made to the following documents in t	he						
		prese	ent notification:							
		D1:	Null V.: "Safe process oils for tires with	low						
			environmental impact", Kautschuk und Gummi	_						
			Kunststoffe- Asbest, Dr. Alfred Huthig Verl	.ag						
			GmbH, Heidelberg, DE. vol. 52, no. 12, 1999),						
		•	pages 799-800, 802, XP002184259							
		D2:	J. Bowman, M. Da Via, M.E. Pattnelli,							
			P. Torloreto: "The influence of non-toxic							
			extender oil on SBR performances", Kautschu	ık						
		•	Gummi Kunststoffe, vol. 57, no. 1,							
			1 February 2004 (2004-02-01), pages 31-36,							
			XP001183198, Heidelberg							
	2.	Nove	lty and inventive step - claims 1-53							
	2.1.	Docur	ment D1, which is considered to represent the							
		most	relevant prior art, describes a plasticizer							

- most relevant prior art, describes a plasticizer system characterized in that it comprises an MES or TDAE oil (D1: pages 799-804).
- 2.2 Independent claims 1, 25, 39, 43, 46, 49 and 53 of the present application differ from D1 by replacing

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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

some of these MES or TDAE oils with a polylimonene resin.

- 2.3. The subject matter of claims 1-53 (plasticizer system, rubber composition comprising said plasticizer system, a method for preparing said rubber composition, use of said composition for manufacturing an article, said finished or semifinished article, and the use of said plasticizer system for plasticising a diene rubber composition) is therefore novel.
- 2.4. In general, in rubber compositions for tyres, replacing DAE aromatic oils with MES or TDAE oils results in a reduction in the abrasion and cut resistance of said compositions.
 The problem that the present invention is intended to solve can be considered to be that of:
 Providing an improved plasticizer system based on an MES or TDAE oil that avoids the above drawbacks.
- 2.5. The solution proposed in the present application is a plasticizer system characterized in that it comprises an MES or TDAE oil and, in addition, a polylimonene resin.
- 2.6. Neither D1 nor a combination of D1 and D2 suggests said solution to the problem. The subject matter of claims 1-53 of the present application therefore involves an inventive step.

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Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement												
3.	The	invention	is ac	cording	to	claims	1	to	53	are			
	ind	ustrially	appl	icable.						-			٠
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